

**USAF Academy Flight Training Center**  
 Cessna C-172 SP Emergency Procedures Closed Book Exam  
 12 Oct 2023 – Answer Key

**ENGINE FIRE DURING START**

1. Cranking – CONTINUE
If Engine Starts:
2. Power – 1800 RPM
3. Engine – SHUTDOWN
If Engine Fails to Start:
4. Cranking – CONTINUE
5. Throttle – FULL OPEN
6. Mixture – IDLE CUT-OFF
7. Fuel Shutoff Valve – OFF (Pull Full Out)
8. Auxiliary Fuel Pump Switch – OFF

**ENGINE FAILURE DURING TAKEOFF RUN**

1. Throttle – IDLE
2. Brakes – APPLY

**ENGINE FAILURE DURING FLIGHT**

1. Airspeed – BEST GLIDE
2. Fuel Shutoff Valve – ON (Push Full In)
3. Fuel Selector Valve – BOTH
4. Auxiliary Fuel Pump Switch – ON
5. Mixture – RICH (if restart has not occurred)
6. Ignition Switch – BOTH (or START if propeller is stopped)

**ENGINE FIRE IN FLIGHT**

1. Mixture – IDLE CUT OFF
2. Fuel Shutoff Valve – PULL OUT (OFF)
3. Auxiliary Fuel Pump Switch – OFF
4. Master Switch – OFF

**ELECTRICAL FIRE IN FLIGHT**

1. Master Switch – OFF
2. Vents, Cabin Air, Heat – CLOSED
3. Fire Extinguisher – ACTIVATE

V <sub>A</sub> at Max Gross Weight	105 KIAS	V <sub>FE</sub> 10° Flaps	110 KIAS
V <sub>A</sub> at 2200 lbs	98 KIAS	V <sub>FE</sub> 10° - 30° Flaps	85 KIAS
V <sub>A</sub> at 1900 lbs	90 KIAS	Best Glide at Max Gross	68 KIAS